

IN THE CLAIMS

1. (Currently amended) A method for deforming a workpiece, such as a metal cylinder or plate~~(3)~~, by means of a tool~~, in particular~~ having one or more forming rollers~~(5)~~, the method comprising:

5 rotating wherein the workpiece ~~(3)~~ and/or the tool ~~(5)~~ are rotated about an axis ~~(4)~~ relative to each other;;

moving the tool (5) moves relative to the workpiece
 10 through one or more deforming curves and wherein at least part of the workpiece~~(3)~~ is deformed;;

~~characterized in that~~ measuring values of one or more coordinates of the ~~a~~ position of the ~~an~~ extreme edge of the workpiece ~~(3)~~ ~~are measured~~
 15 during the deforming process~~,~~ ; and

~~that one or more parameters of the deforming process is/are changed on the basis of the measured values~~

changing a position and/or a shape of one or more
 20 of the deforming curves being passed through
 during the deforming process, a feeding rate
 and/or a rotational speed with which the tool
 and the workpiece are rotated relative to each
 other on the basis of said measurement or
 25 measurements, with the proviso that, if the
 shape of one or more of the deforming curves
 is changed, no locally reduced portions will
 be imposed on the deformed portion.

30 2. (Cancelled)

 3. (Currently amended) ~~A~~ The method according to claim 1 ~~or 2~~, wherein measuring values includes measuring said values ~~are measured~~ in a contactless manner.

4. (Currently amended) A ~~The~~ method according to any one of the preceding ~~claims~~claim 1, wherein measuring values includes measuring the values of one or more coordinates of the position of the extreme edge of the workpiece ~~(3)~~ are measured at least at the end of each pass, ~~but preferably during the entire deforming process, and wherein preferably one or more parameters of the deforming process is/are continuously adjusted on the basis of the measured values.~~

5. (Currently amended) A ~~The~~ method according to any one of the preceding ~~claims~~claim 1, wherein at least the extreme edge of the workpiece ~~(3)~~ is deformed on a forming tool, ~~such as a mandrel (15) or a spindle (28).~~

6. (Currently amended) A forming machine ~~(1)~~ for deforming a workpiece, ~~such as a metal cylinder or plate (3),~~ comprising:

a forming tool,

~~in particular one or more forming rollers (5), one or more driving means~~ drives configured to move (10, 11) for moving said tool (5),

a control unit ~~(25)~~ comprising a memory, ~~which wherein the control unit (25) is arranged for controlling the tool (5) during the deforming process at least on the basis of deforming curves, the feed rate and/or the rotational speed with which the workpiece (3) and the tool (5) are rotated relative to each other, which parameters are stored in the memory,~~ ~~characterized in that the forming machine (1) is furthermore provided with~~

at least one detector ~~(19)~~ for measuring configured to measure values of one or more coordinates of ~~the~~ a position of ~~the~~ an extreme edge of the workpiece and provide said measured values to the control unit (19), and

wherein the control unit is arranged for changing
the position and/or the shape of one or more
of the deforming curves being passed through
during the deforming process, the feeding rate
5 and/or the rotational speed with which the
tool and the workpiece are rotated relative
to each other on the basis of the measurement
or measurements obtained by said at least one
detector, with the proviso that, if the shape
10 of one or more of the deforming curves is
changed, no locally reduced portions will be
imposed on the deformed portion.

7. (Cancelled)
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8. (Currently amended) ~~A The forming machine (1)~~
according to claim 6 ~~or 7~~, wherein ~~the~~ said at least one de-
tector ~~(19)~~ comprises a series of sensors.

9. (Currently amended) ~~A The forming machine (1)~~
20 according to ~~any one of the claims 6-8, comprising a claim 6~~
wherein said forming tool, such as a mandrel ~~(15)~~ config-
ured such that ~~or a spindle (28), on which at least the~~
extreme edge of the workpiece ~~(3) can be~~ is deformed.

25 10. (Currently amended) ~~A The forming machine (1)~~
according to claim 9, wherein the forming tool ~~(15, 28)~~ is
provided with a stop ~~(15), by means of which the~~ configured to
determine a length of at least a portion of the workpiece ~~(3)~~
30 ~~can be determined.~~

11. (New) The method according to claim 4 wherein
changing one or more parameters of the deforming process in-
cludes continuously adjusting at least one of the parameters
35 of the deforming process continuously on the basis of the
measured values.